

CLASSIFICATION SECRET

CENTRAL INTELLIGENCE AGENCY

REPORT NO. 

## INFORMATION REPORT

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## SOURCE

25X1A Following is additional information on the Wissenschaftlich-Technisches Büro  
Geräte supplementin

1. The high-frequency furnace for the vacuum smeltery which is under construction is nearing completion and may be ready for use in early April 1950. At first, precious and non-precious metals are to be smelted in small quantities in order to check exactly the purity and various material properties. Equipment for hammering and drawing to a thickness of 0.3 mm is available and has been tested.
2. A drawing shop for the finest wire has been approved and will begin operation in 1950. It is intended to draw wires of the same dimensions, accuracy and quality as those furnished by the DEGUSSA and the firm Dr. Ing. Schildbach in Western Germany.
3. The amounts of platinum, "Konstantan", and nickel needed for the measuring instrument industry of the Russian Zone are available. Platinum can be procured from Freiberg (Saxony) at any time. A 99.98% purity of the metals is considered adequate and it is said that this can be reached by the new furnace.
4. During the first period of operation of the furnace the production of wire is planned as follows (all diameters in mm):
  - a. Platinum - iridium (90 plus 10% alloyed) wire with diameters of 0.012, 0.015, 0.020, 0.030, 0.050, 0.060, 0.070, and 0.1.
  - b. "Konstantan" wire with diameters of 0.011, 0.015, 0.020, and 0.030.
  - c. Chrome-nickel wire with diameters of 0.006, 0.010, 0.014, 0.020, 0.025, 0.030, 0.040, 0.050, and 0.070.
  - d. Nickel carbonyl wire for resistance thermometers, diameter 0.050.
5. For 1951-1952 the manufacture of "Mu-Metall" is planned. Mu-metal is said to be a special iron alloy for electromagnetic equipment and is used in cores of coils, magnetic shunts, etc.

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